



Applicants:

W.D. Grover et al.

Attorney Docket No.: LAMA121377

Tfa

Application No.: 10/613,531

Group Art Unit: 2643

Filed:

July 2, 2003

Title:

METHOD FOR DESIGN OF NETWORKS BASED ON P-CYCLES

INFORMATION DISCLOSURE STATEMENT

Seattle, Washington 98101

September 3, 2004

TO THE COMMISSIONER FOR PATENTS:

Applicants are aware of the information listed in the attached form that may be material to the prosecution of the above-identified patent application.

1. Pursuant to 37 C.F.R. § 1.97(b), this Information Disclosure Statement is being X filed within three months of the filing date of the national application (other than a CPA), within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, before the mailing date of a first Office Action on the merits, or before the mailing date of a first Office Action after the filing of an RCE.

Respectfully submitted,

CHRISTENSEN O'CONNOR JOHNSON KINDNESSPLLC

Kevan L. Morgan

Registration No. 42,015

Direct Dial No. 206.695.1712

I hereby certify that this correspondence is being deposited with the U.S. Postal Service in a sealed envelope as first class mail with postage thereon fully prepaid and addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the below date.

Date: September 3, 2004

Information Cited by the Applicant(s) that may be Material to the Prosecution of the Subject Application

Application Serial No. 10/613,531 Applicant: W.D. Grover et al. Re:

Title: METHOD FOR DESIGN OF NETWORKS BASED ON p-CYCLES

Filed: July 2, 2003 page 1 of 3

United States Patent Documents

Examiner <u>Initial</u> <u>ID</u>	Document Number	<u>Date</u>	<u>Name</u>	<u>Class</u>	Sub <u>Class</u>
A1	4,956,835	09/11/1990	Grover	370	228
A2	5,850,505	12/15/1998	Grover et al.	714	4
A3	6,052,796	04/18/2000	Croslin	714	4
A4	6,331,905	12/18/2001	Ellinas et al.	398	2
A5	2002/0187770	12/12/2002	Grover et al.	455	403
A6	09/561,355	04/28/2000	Grover	714	

Foreign Patent Documents

Examiner <u>Initial</u> <u>ID</u>	Document Number	<u>Date</u>	Country	Class	Sub <u>Class</u>	Trans- <u>lation?</u>
B1	2,161,847 (Corre	10/31/1995 esponds to A2 ab	Canada ove)			N/A
B2	2,360,963 (Corre	11/02/2001 esponds to A5 ab	Canada ove)			N/A
Вз	2,307,520 (Corre	04/28/2000 esponds to A6 ab	Canada	,		N/A

Information Cited by the Applicant(s) that may be Material to the Prosecution of the Subject Application

Re:	Applic Title:	pplication Serial No. 10/613,531 pplicant: W.D. Grover et al. itle: METHOD FOR DESIGN OF NETWORKS BASED ON p-CYCLES iled: July 2, 2003 page 2 of 3	
	Inform de autho	ation r, title, date of publication to extent known, relevant pages, and place of publication if known)	
Exami <u>Initial</u>		Document Identification	
	C1	M. Herzberg, S.J. Bye, "An optimal spare-capacity assignment model for survivable networks with hop limits", <i>IEEE Globecom 1994</i> , pp. 1601-1607	
	C2	W.D. Grover, "Distributed restoration of the transport network", in <i>Network Management into the 21st Century</i> , editors T. Pleyvak, S. Aidarous, <i>IEEE/IEE Press Co-publication</i> , Chapter 11, pp. 337-417, Feb. 1994.	
	C3	R.R. Iraschko, M.H. MacGregor, W.D. Grover, "Optimal capacity placement for path restoration in mesh survivable networks", <i>ICC 1996</i> , Dallas, June 1996, pp. 1568-1574	
	. C4	W.D. Grover, D.Y. Li, "The forcer concept and express route planning in mesh-survivable networks", <i>Journal of Network and Systems Management</i> , Vol. 7, No. 2, 1999, pp. 199-223	
	C5	W.D. Grover, M.H. MacGregor, "Potential for spare capacity preconnection to reduce crossconnection workloads in mesh-restorable networks", <i>Electronics Letters</i> , Fe. 3, 1994, Vol. 30, No. 3, pp 194-195	
	C6	W.D. Grover, D. Stamatelakis, "Self-organizing closed path configuration of restoration capacity in broadband mesh transport networks", CCBR '98, June 1998, 12 pages	
. "	. C7	R. Kawamura, K. Sato, I. Tokizawa, "Self-healing ATM networks based on virtual path concept", <i>IEEE Journal on Selected Areas in Communication</i> , Vol. 12, no. 1, Jan. 1994, pp. 120-127	
	C8	R.R. Iraschko, "Path Resorable Networks", PhD Thesis, Edmonton, Alberta, 1996, pp. 56-85	
	C9	W.D. Grover, J.B. Slevinsky, M.H. MacGregor, "Optimized design of ring-based survivable networks", Can. J. Elect. & Comp. Eng., Vol. 20, No. 3, 1995, pp. 139-149	
	C10	W.D. Grover, D. Stamatelakis, "Cycle-oriented distribution preconfiguration: Ring-like speed with mesh-like capacity for self-planning network restoration", <i>ICC '98</i> , June 1998, 7 pages	
	C11	D. Stamatelakis, "Theory and algorithms for preconfiguration of spare capacity in mesh restorable networks" M.Sc. Thesis 1997	

Information Cited by the Applicant(s) that may be Material to the Prosecution of the Subject Application

Re:		eation Serial No. 10/613,531 eant: W.D. Grover et al.
		METHOD FOR DESIGN OF NETWORKS BASED ON p-CYCLES
		July 2, 2003 page 2 of 3
	C12	R.R. Iraschko, M.H. MacGregor, W.D. Grover, "Optimal capacity placement for path restoration in STM or ATM mesh-survivable networks", <i>IEEE/ACM Trans. On Networking</i> , Vol. 6, No. 3, June 1998, pp. 325-336
	C13	W.D. Grover, R.R. Iraschko, Y. Zheng, "Comparative methods and issues in design of mesh-restorable STM and ATM networks", <i>Telecommunication Network Planning</i> , pp. 169-200, editors: B. Sanso and P. Soriano, Kluwer Academic Publishers, 1999
	C14	B.A. Coan, W.E. Leland, M.P. Vecchi, A. Weinrib, L.T. Wu, "Using distributed topology update and preplanned configurations to achieve trunk network survivability", <i>IEEE Trans. On Reliability</i> , Vol. 40, No. 4, Oct. 1991, pp. 404-427
	C15	B.A. Coan, M.P. Vecchi, L.T. Wu, "A distributed protocol to improve the survivability of trunk networks", 13 th International Teletraffic Congress 1991, June 17-26, 1991, 7 pages
	C16	D.A. Schupke, C.G. Gruber, A. Autenrieth, "Optimal configuration of p-cycles in WDM networks", ICC 2002, 5 pages
	C17	W. Grover, J. Doucette, M. Clouqueur, D. Leung, "New options and insights for survivable transport networks", <i>IEEE Communications Magazine</i> , vol. 40, no. 1, pp. 34-41, Jan. 2002
	C18	Y. Xiong, L.G. Mason, "Restoration strategies and spare capacity requirements in self-healing ATM networks, <i>IEEE/ACM Transactions on Networking</i> , vol. 7, no. 1, Feb. 1999, pp. 98-110
	C19	W.Grover, D. Stamatelakis, "Bridging the ring-mesh dichotomy with <i>p</i> -cycles", <i>IEEE/VDE DRCN</i> 2000, Munich, Germany, pp. 92-104, April 2000
Exami	ner:	Date Considered:

[Examiner: Initial if reference considered, whether or not citation is in conformance with M.P.E.P; draw line through citation is not in conformance <u>and</u> not considered. Include copy of this form with next communication to applicant]